

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A ~~UWB~~ ultra wide band receiver comprising:
a plurality of at least one communication modules with ~~[[a]]~~ limited working ~~band~~ bands
whose on/off ~~state~~ states can be controlled;

wherein the ~~UWB~~ ultra wide band receiver is adapted to detect power intensity of a
received radio signal in the limited working ~~band~~ bands based on ~~an~~ on/off states of said plurality
of at least one communication modules, and

wherein the ~~UWB~~ ultra wide band receiver is adapted to control the on/off states of the ~~at~~
plurality of at least one communication modules based on a result of the detection~~[[.]]~~,

wherein the said plurality of communication modules are a plurality of band stop filters
or plurality of small signal amplifiers.
2. (currently amended): The ~~UWB~~ ultra wide band receiver of claim 1, wherein the
detected power intensity corresponds to a band that comprises a frequency at which interference
is expected.
3. (currently amended): The ~~UWB~~ ultra wide band receiver of claim 1, further
comprising:

a baseband controller adapted to control the on/off states of said ~~at least one~~ plurality of
communication modules, to detect the power intensity of the radio receive signals, and to control
the on/off states of the plurality of said at least one communication modules.

4. (currently amended): The ~~UWB~~ ultra wide band receiver of claim 3, further comprising an MAC for storing information on the detected band and transmitting the stored information on the band to other ~~UWB~~ ultra wide band receivers.

5. (currently amended): The ~~UWB~~ ultra wide band receiver of claim 4, wherein the information on the band is transmitted through a management frame.

6. (currently amended): The ~~UWB~~ ultra wide band receiver of claim 4, wherein the information on the band is stored in a physical layer header.

7 - 8 (deleted)

9. (withdrawn): A UWB transmitter, comprising:
at least one communication module with limited working bands whose on/off states can be controlled,
wherein the UWB transmitter controls the on/off states of the at least one communication module to filter out a radio transmission signal in a corresponding band.

10. (withdrawn): The UWB receiver of claim 9, wherein the band comprises a frequency at which interference is expected.

11. (withdrawn): The UWB transmitter of claim 9, further comprising:
a baseband controller for controlling the on/off state of the at least one communication module and to control transmission of the radio transmission signal in the band.

12. (withdrawn): The UWB transmitter of claim 11, wherein the baseband controller comprises a power control unit for controlling intensity of transmission power of the radio transmission signal based on a specific frequency band.

13. (withdrawn): The UWB transmitter of claim 9, wherein the at least one communication module comprises a band stop filter.

14. (withdrawn): The UWB transmitter of claim 9, wherein the at least one communication module comprises a small signal amplifier.

15. (currently amended): A ~~UWB~~ ultra wide band transceiver, comprising:
a plurality of ~~at least one~~ communication modules;
wherein the ~~UWB~~ ultra wide band transceiver is adapted to detect power intensity of a radio receive signal by bands according to on/off states of the ~~at least one~~ plurality of communication modules with a predetermined limited working bands, and,
further adapted to control the on/off states of the plurality of ~~at least one~~ communication modules based on the detection result, to filter out a radio receive/transmission signal in a corresponding band
wherein the said plurality of communication modules are a plurality of band stop filters or a plurality of small signal amplifiers.

16. (currently amended): The ~~UWB~~ ultra wide band transceiver of claim 15 wherein the band comprises a frequency at which interference is expected.

17. (currently amended): The ~~UWB~~ ultra wide band transceiver of claim 15, comprising:
a baseband controller adapted to control the on/off states of the ~~at least one~~ plurality of communication modules, and

further adapted to detect the power intensity of the radio receive signal in accordance with the control, and to control the on/off states of the plurality of ~~at least one~~ communication modules according to the detection result.

18. (currently amended): The ~~UWB~~ ultra wide band transceiver of claim 17, wherein the baseband controller comprises a power control unit for controlling intensity of transmission

power of the radio transmission signal according to a signal to noise ratio (SNR) of the radio receive signal.

19. (currently amended): The ~~UWB~~ ultra wide band transceiver of claim 17, further comprising an MAC for storing information on the band and transmitting the stored information on the band to other ~~UWB~~ ultra wide band receivers.

20. (currently amended): The ~~UWB~~ ultra wide band transceiver of claim 19, wherein the information on the band is transmitted through a management frame.

21. (currently amended): The ~~UWB~~ ultra wide band transceiver of claim 19, wherein the information on the band is stored in a physical layer header.

22 - 23 canceled

24. (currently amended): A method of receiving ~~UWB~~ ultra wide band signals, comprising:

detecting power intensity of a radio receive signal according to on/off states of a plurality of at least one communication modules with a limited working bands;

controlling the on/off states of the ~~at least one~~ plurality of communication modules in accordance with the detection result; and

filtering out the radio receive signal in the band[[]].

wherein the said plurality of communication modules are a plurality of band stop filters or a plurality of small signal amplifiers.

25. (original): The method of claim 24, wherein the band comprises a frequency at which interference is expected.

26. (currently amended): The method of claim 24, wherein the step of controlling the on/off states of the ~~at least one~~ plurality of communication modules includes setting the on or off state according to the detection result of the power intensity.

27. (withdrawn): A method of transmitting UWB signals, comprising:
controlling on/off state of at least one communication module; and
filtering out a radio transmission signal in a band.

28. (withdrawn): The method of claim 27, wherein the step of controlling the on/off state of at least one communication module further includes:
setting on/off state of the communication module and
making an agreement on the determination result with at least one other communicating UWB receiver.

29. (withdrawn): The method of claim 28, wherein the step of making an agreement on the determination result includes:
storing information on the determination result; and
transmitting the stored information to the other UWB receiver.

30. (currently amended): A method of transceiving ~~UWB~~ ultra wide band signals, comprising:
detecting power intensity of a radio receive signal according to on/off states of a plurality of ~~at least one~~ communication modules ~~with a~~ limited working bands;
controlling the on/off states of the plurality of ~~at least one~~ communication module a in accordance with the detection result; and
filtering out a radio receive/transmission signal in a band[.];

wherein the said plurality of communication modules are a plurality of band stop filters or a plurality of small signal amplifiers.

31. (currently amended): The method of claim 30, wherein the step of controlling the on/off states of the plurality of communication modules includes:

setting on/off state of the at least one communication module according to the detection result of the power intensity; and

making an agreement on the determination result with at least one other communicating ~~UWB~~ ultra wide band system.

32. (currently amended): The method of claim 31, wherein the step of making an agreement on the set result includes:

storing information on the determination result; and

transmitting the stored information to the other ~~UWB~~ ultra wide band receiver.